

CLAIMS

1. A weather vane for measuring the orientation of the wind, comprising a rotary base (1), a vane (2) sensitive to the wind (6) and fixed by a joint (7) to the base, and a heater (4) inserted into the vane, characterized in that the vane is hollow and has an insertion orifice (13) situated at the base of the vane so that the heater can be inserted.

2. The weather vane as claimed in claim 1, characterized in that the heater is pressed against interior walls (3) of the hollow vane via a spring (17, 19) preferably placed on just one of the lateral faces, or at the rear, of this heater, this spring preferably being a crinkle spring made of bronze.

3. The weather vane as claimed in one of claims 1 and 2, characterized in that the heater comprises ceramic blocks (20) of varying thickness (24) held against two electrodes (21, 22) themselves wrapped in an electrically insulating film (23), the electrodes preferably being made of brass.

4. The weather vane as claimed in claim 3, characterized in that the electrically insulating film is coated with a thermally conducting grease (26).

5. The weather vane as claimed in one of claims 1 to 4, characterized in that the vane has a vent (27) situated (28) opposite the insertion orifice.

6. The weather vane as claimed in one of claims 1 to 5, characterized in that the heater comprises ceramic blocks with a positive temperature coefficient.

7. The weather vane as claimed in one of claims 1 to 6, characterized in that the heater has a thickness that varies according to the internal geometry of the vane cavity (3).

8. The weather vane as claimed in one of claims 1 to 7, characterized in that the heater has, in a profile perpendicular to the direction of insertion, an ogive shape (30).

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9. The weather vane as claimed in one of the preceding claims, characterized in that the vane (20) is in the shape of a tube, inside which the heater (4) is inserted, and in that the thickness of the tube is minimized for regions of the vane (2) which need to be deiced the most.

10. The weather vane as claimed in claim 9, characterized in that the thickness of the tube is minimized in the region of the leading edge of the vane.

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